



Mr. John Grantham State of Washington Department of Ecology Nuclear & Mixed Waste Program P. O. Box 47600 Olympia, WA 98504-7600

FLUOR DANIEL, INC

Date:

June 20, 1994

Reference:

Hanford Waste Vitrification Plant

DOE Contract DE-AC06-86RL10838

Fluor Contract 8457

Transmittal No.: WDOE-945

Dear Mr. Grantham:

TRANSMITTAL

We enclosed 2 copy of the items listed below. These are issued per US-DOE request.

[] Approval

[] Reference

[] Review and Comment

[X] DCN-RFC

Response due to Fluor: N/A

Responds to: A160 PACKAGE

NUMBER	REV	DATE	TITLE		
DCN - 0184	0	6/15/94	DCN TITLE:		
į			REVISION OF ACCEPTABLE VIBRATION OF LIMITS OF PUMPS		
<u> </u>	!				
1					
			"RELEASED FOR CONSTRUCTION"		
			REBEIDED TON CONSTRUCTION		
1					
	İ				
<u> </u>					

Reference: FRP-1455, FUP-873

Distribution:

R. L. Long - DOE-RL, w/0

TWP/AME Corresp Cntrl Cntr MSIN A5-10

(A160 PACKAGE), w/O

P. Felise - WHC-RL (MSIN G6-06), w/1

Environmental Data Management Center (MSSM 1888), 100/1

D. Duncan - US EPA, Region X, w/O

M. D. Talbot, WHC - w/0

Very truly yours,

R.S. Poulter

Project Director

RSP:DLG:nre

FLUOR DANIEL DCN - 0184 0 REV PAGE 1 OF 5 US DEPARTMENT OF ENERGY DATE INITIATED DON TITLE HANFORD WASTE VITRIFICATION PLANT Revision of acceptable vibration 25 April 1994 limits of pumps. **DESIGN CHANGE NOTICE** PACKAGE NO. A160 SECTION 1: DESCRIPTION OF CHANGE CAUSE OF CHANGE: This DCN revises the acceptable vibration limits of the following pumps: PX-500-002A/B Firewater Pumps Field Change Request PX-500-004 Jockey Pump Supplier Disposition PX-530-013A/B Effluent Discharge Sump Pumps ☐ Deficiency Report PX-530-015 Effluent Discharge Sump Pump Design Development PX-500-016 Efffluent Discharge Sump Pump ☐ Change Request TBD/Hold Other Title III This change is made per WHC direction. Review 4 WHC request FOR LIST OF AFFECTED DOCUMENTS, SEE SECTIONS 6 AND 7. RFF-1649 (WHC 9452439) Initiating Document(s) **SECTION 2: EVALUATION** IF "YES", ADDITIONAL REVIEWER COMMENTS REVIEW REQUIRED BY: AND SIGNATURE/DATE WAPA DWG/SPEC? **Z**NO ☐ YES QUALITY LEVEL I DWG/SPEC? KL NO ☐ YES SAFETY CLASS 1 OR 2 DWG/SPEC? **M**NO ☐ YES SYSTEMS ANALYSES AFFECTED? **E** NO ☐ YES ☐ YES MULTI-DISCIPLINE CHANGE? KI NO. **ADM** DCN Evaluated by: Others Systems SECTION 3: APPROVED FOR CONSTRUCTION Centro75 4/26 26 APR94 Originator Date Project/Residedt Endineer

SECTION 4; CONCURRENCE	SECTION 5: RELEASED FOR CONSTRUCTION PE STAMP REQUIRED? NO YES
Froject Management Systems Systems Systems C-2-94	WHC 5 Date 6-16-94
Independent Safety Marks for ED 5/25/94 Quality Assurance Date Date	Dote Date Date Date Date
Gonnguration Management Date	
COMMENTS:	



15145 B-595-C-A160-

US DEPARTMENT OF ENERGY

HANFORD WASTE VITRIFICATION PLANT

DESIGN CHANGE NOTICE

1

DCN - 0184	0	Mech	A160	2
	REV	DISCIPLINE	PKG. NO.	PAGE

PREPARED BY: D. G. LaBounty

Date: 25 April 1994

DISCIPLINE ENGINEER: D. G. LaBounty

Yes

Date: 25 April 1994

Revised acceptable vibration limits.

SECTION 6: CO	NSTRUC	TION D	OCUMENTS AFFECTED		
DOCUMENT	SHT/	REV		INCLD	
NUMBER	PAGE	NO	DOCUMENT NAME	Y/N	DESCRIPTION OF CHANGE
B-595-C-A160-	7	1	Sump Pumps	Yes	Revised acceptable vibration limits.

15540 B-595-C-A160-Fire Water Unit Heater Pump 1 Yes Revised acceptable vibration limits. 15541

Fire Water System Pumps

SECTION 7: NON-CONSTRUCTION DOCUMENTS AFFECTED

This section references affected items such as P&IDs or calculations/analyses, but they are generally not included in DCN package.

DOCUMENT SHT/ **REV**

NUMBER __ PAGE <u>NO</u> DOCUMENT NAME **DESCRIPTION OF CHANGE**

N/A

2.2.4 Vibration 9513558.0658

Delete the second sentence beginning with "Peak-to-peak limits measured ..." including the table following, and replace with:

"The acceptable peak-to-peak vibration limits measured on the bearing housing for anti-friction bearings shall be in accordance with the Hydraulic Institute standards.

For sleeve bearings, the acceptable limits of vibration measured on the shaft at the sleeve bearing shall be 3 mils maximum."

						
FLUOR DANIEL U.S. DEPARTMENT OF ENERGY HANFORD WASTE VITRIFICATION PLANT			DESIGN CHANGE NOTICE			
DESCRIPTION OF CHANGE Revision of acceptable vibration limits for pumps.			BASE DOC. NO. B-595-C-A160- 15145 SHT/PG. 7 REV. 1			
PREPARED BY: D. G. LaBou	nty	DATE: 25Apr94		REV	PAGE	
DISCIPLINE ENGINEER: D. G. L	aBounty	DATE: 25Apr94	DCN - 0184	0	3	

2.2.5 Vibration 75 13358 11659

Delete the third sentence beginning with "Peak-to-peak limits ..." including the table following, and replace with:

"The acceptable peak-to-peak vibration limits measured on the bearing housing for anti-friction bearings shall be in accordance with Hydraulic Institute standards."

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FLUOR DANIEL	U.S. DEPARTM HANFORD WASTE	DESIGN CHANGE NOTICE				
DESCRIPTION OF CHANGE Revision of acceptable vibration limits for pumps.			BASE DOC. NO. B-595-C-A160- 15540 SHT/PG. 9 REV. 1			
PREPARED BY: D. G. LaBou	nty	DATE: 25Apr94		REV	PAGE	
DISCIPLINE ENGINEER: D. G. L	aBounty	DATE: 25Apr94	94 DCN - 0184		4	

2.2.5 Vibration 95 15358 . U66U

Delete the third sentence beginning with "Peak-to-peak limits ..." including the table following, and replace with:

"The acceptable peak-to-peak vibration limits measured on the bearing housing for anti-friction bearings shall be in accordance with the Hydraulic Institute standards."

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FLUOR DANIEL	U.S. DEPARTMEN HANFORD WASTE VI	DESIGN CHANGE NOTICE				
DESCRIPTION OF CHANGE Revision of acceptable vibration limits for pumps.			BASE DOC. NO. B-595-C-A160- 15541 SHT/PG. 7 REV. 1			
PREPARED BY: D. G. LaBou	ınty	DATE: 25Apr94		REV	PAGE	
DISCIPLINE ENGINEER: D. G. L	DISCIPLINE ENGINEER: D. G. LaBounty		DCN - 0184	0	5	